DOCUMENT RESUME

ED 388 509 SE 056 606

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TITLE Hands-On Environmental Science Activities. Teacher's Edition. First Edition.
REPORT NO ISBN-1-56506-000-8
PUB DATE 91
NOTE 260p.; For related documents, see SE 056 604-605.
AVAILABLE FROM Alpha Publishing Co., Inc., Dept. BK5, 1910 Hidden Point Road, Annapolis, MD 21401-9720 (Order number EMT01, $45).
PUB TYPE Guides - Classroom Use - Teaching Guides (For Teacher) (052) -- Books (010)

EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS Ecology; Energy; Enrichment Activities; *Environmental Education; Hands on Science; Pollution; Population Growth; *Science Activities; Science Education; Secondary Education; Teaching Guides

ABSTRACT

The ability of students to go beyond facts and to think critically, while at the same time enjoying and valuing the learning process, is fundamental to science and environmentalism. This book provides enrichment activities for the science curriculum that provide concrete connections with important world events. Each activity is self-contained and provides everything the student needs to gain a basic understanding of a concept or to work through a project. The activities include innovative and traditional projects for both the bright and average, the self-motivated, and those who find activity motivating. A comprehensive teacher's guide included with each activity discusses the goal, student objectives, prelab discussion, guide to the investigation, vocabulary or glossary, additional resources, and suggestions for further study for each project. Topics covered include: ecology (food chains and food webs, the balance of nature, building a closed-system biome); energy (fossil fuel generators, nuclear reactors, solar collectors, solar cells, modern windmills, electrolysis of water); conservation and the Earth's resources (lighting, insulation, mining, water consumption, water pollution and treatment, oil spills, air pollution, acid rain, the greenhouse effect); human and animal populations; pollution; making a difference (recycling, being an activist); politics and economics; and games for concerned citizens. (JRH)

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